

DSpace @ University of Hawai'i at Mānoa Library

2007 Hawaii State
Web Users Group Meeting

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Definition

- ◆ A set of services that a university offers to the members of its community
- ◆ for the management and dissemination of digital materials created by the institution and its community members.
- ◆ An organizational commitment to the stewardship of these digital materials
- ◆ including long-term preservation where appropriate
- ◆ as well as organization and access or distribution⁶

6 : See Sources, item 6 at end of powerpoint

Institutional Repositories

◆ History and Context

- Library community: desire to make research less costly to access
- Academic institutions: open access to its research in digital formats, enhance academic prestige
- Teaching and research community:
 - ◆ access to “grey literature”, valuable research materials not usually found in publications
 - ◆ increase in web citation use: persistent uri and long-term management of content
 - ◆ access to teaching materials: “learning objects”
- DSpace community: open and interoperable

Organizational Purpose

- ◆ increase dissemination speed and impact of faculty research
- ◆ showcase the university's research output
- ◆ house digitized collections
- ◆ manage learning materials : archive of learning objects available to all disciplines
- ◆ provide Open Access
- ◆ support collaboration within "invisible colleges"

Adoption Levels

- ◆ 2005 : IRs at 40% universities ; 6% colleges⁵.
- ◆ 88% of universities without an IR are planning one⁵.
- ◆ Major players
 - Fedora (not Fedora-Core)
 - E-prints
 - D-Space

DSpace

◆ Developers :

- MIT and Hewlett Packard : 2000-2002

◆ Community¹:

- 2003 : DSpace Federation Project
- 2004: First DSpace "committer" group
- 2005: 28 countries have adopted
- 2007: Over 200 organizations have implemented

Intent²

◆ Capture

- Digital research material in various formats
- Directly from creators, e.g. faculty

◆ Describe

- Descriptive, technical, and rights metadata

◆ Distribute

- Via the web with access control

◆ Preserve

- Persistent URI
- Perpetual collection
- Checksum and bitstream data

Types of content²

- ◆ Preprints, articles, working papers
- ◆ Technical reports
- ◆ E-theses and dissertations
- ◆ Datasets
- ◆ Images
- ◆ Audio and video files
- ◆ Digitized library collections

Content item “versions”²

- ◆ PDF, Word versions of same document
- ◆ Editions of a work
- ◆ Metadata support

Search DSpace

 Go[Advanced Search](#)[Home](#)

Browse

[Communities
& Collections](#)[Titles](#)[Authors](#)[Subjects](#)[By Date](#)

Sign on to:

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University of Hawaii at Manoa

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Title: ImageTwo**Issue Date:** 14-Mar-2007**URI:** <http://hdl.handle.net/10125/40>**Appears in Collections:** [Test: image collection: no workflows: sunyeen/micro may submit](#)

Files in This Item:

File	Description	Size	Format
Box10E16.jpg		29Kb	JPEG
Box10E16.tif		3574Kb	TIFF
Box10E16Verso.tif		4159Kb	TIFF

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Technology

- ◆ Environment: Windows, Linux, Solaris, CentOS, etc.
- ◆ Database: Postgresql or Oracle
- ◆ Apache, Tomcat
- ◆ Java and XML
- ◆ Java server pages, some Perl
- ◆ Lucene index/search
- ◆ CSS-based XHTML user interface
- ◆ CNRI Handle system
- ◆ New user interface in development: Manakin

Architecture

7.1 Overview

The DSpace system is organized into three layers, each of which consists of a number of components.

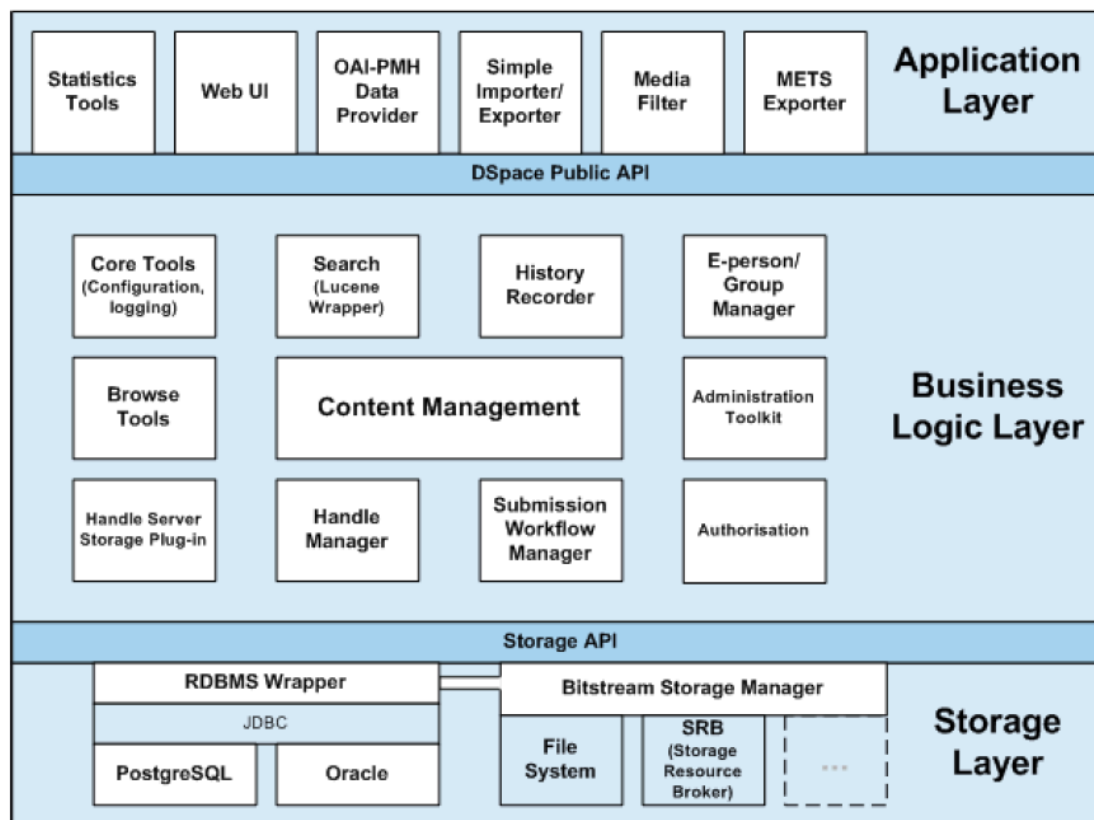


Figure 7.1: DSpace System Architecture

Source: DSpace beta 1 1.4.1 System Documentation [4]

Built-in Functionality

- ◆ Easy to use Item submission workflow
- ◆ Batch import and export
- ◆ Roles and permission levels
- ◆ Stacked authentication services
- ◆ X.509, LDAP
- ◆ Persistent network identifiers (CNRI)
- ◆ Email notification
- ◆ RSS feeds
- ◆ Item recommendation service

Built-in Functionality

- ◆ Metadata services
- ◆ Browsing interface: subject, title, author, date
- ◆ Complex document indexing & searchability
- ◆ Search interface
- ◆ Statistical reports
- ◆ Copyright and License management
 - Integrated Creative Commons licensing service

Built-in Functionality

- ◆ Image thumbnail generation
- ◆ Checksum testing
- ◆ Multiple bitstreams per item
- ◆ Access control
- ◆ OpenURL (SFX)
- ◆ Breadcrumb navigation

Template for site structure

- ◆ Community → sub-communities → collections → items → bitstreams
- ◆ Ability to move communities up and down hierarchy
- ◆ Items can be associated with more than one collection

Communities and Collections

Shown below is a list of communities and the collections and sub-communities within them. Click on a name to view that community or collection home page.

[Home](#)

Browse

[Communities & Collections](#)

[Titles](#)

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Sign on to:

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• [Asia](#)

- [Islam in Southeast Asia](#) [1]
- [Japanese Religious Translations](#) [1]

• [Dissertations - University of Hawaii at Manoa](#)

- [PhD dissertations](#) [4]

• [DSpace ASTRONAUTS](#)

- [Astronaut collection one](#) [3]
- [Astro Bench Warmers](#)
 - [Bench Warmer Second String](#)
 - [No workflow collection number 2: license i type in creating collection](#) [2]
 - [Bench Warmer Third string](#)
 - [NoWorkflow](#) [6]

• [Image communities](#)

- [Pictures: testing thumbnails](#) [3]

• [Preservation Reformatted Material](#)

- [Books](#) [3]
- [Pamphlets](#) [1]

• [X](#)

Item submission workflow

- ◆ Workflow steps
- ◆ “Checkout” system controls access to the documents throughout the workflow

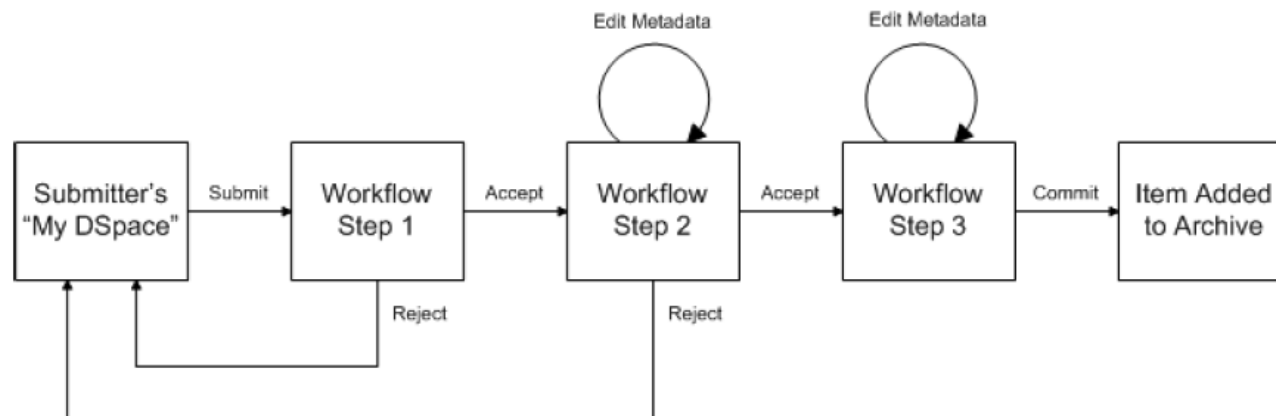


Figure 2.3: Submission Workflow in DSpace

Source: DSpace beta 1 1.4.1 System Documentation⁴

Roles and Groups

◆ Roles

- Submitting content
 - ◆ Submitter
 - ◆ Item reviewer
 - ◆ Coordinator
 - ◆ Metadata reviewer
- Collection administrator
- System administrator

◆ Groups

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DSpace at University of Hawaii at Manoa >
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Full metadata record

DC Field	Value	Language
dc.contributor.author	Hachiya, Tomoko	-
dc.date.accessioned	2007-02-12T20:15:56Z	-
dc.date.available	2007-02-12T20:15:56Z	-
dc.date.issued	2007-02-12T20:15:56Z	-
dc.identifier.uri	http://hdl.handle.net/123456789/27	-
dc.description	Description: Test document called Willow Tree	en
dc.description.abstract	Abstract: Test document called Willow Tree	en
dc.format.extent	34	en
dc.format.medium	Word	en
dc.language	en_US	en
dc.rights	Policies governing use and reproduction of this item.	en
dc.subject	keyword1	-
dc.title	The Willow Tree	en
dc.title.alternative	Collection of poems	en
dc.type	Other	en
dc.contributor.translator	Aichi, Kenji	-
dc.language.original	ja	en
dc.relation.istranslationof	The Willow Tree	en
dc.relation.istranslationof	アジアアフリカ言語文化研究	en

Appears in Collections: [Japanese Religious Translations](#)

Files in This Item:

File	Description	Size	Format
Shog-all1.doc		1816Kb	Microsoft Word View/Open

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Show simple item record

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- Communities/
Collections
- E-people
- Groups
- Items
- Metadata
Registry
- Bitstream Format
Registry
- Workflow
- Authorization
- Edit News
- Edit Default
License
- Supervisors
- Statistics
- Help
- Log Out

[DSpace at UHM >](#)
[Administer >](#)

Metadata Field Registry

[Schemas](#) | [Help...](#)

Note: Adding a new field to the registry does not add a corresponding input field to the submit forms!

ID / Element / Qualifier / Scope Note				
2	contributor	advisor	Use primarily for thesis <u>advisor</u> .	Update Delete...
3	contributor	author		Update Delete...
4	contributor	editor		Update Delete...
5	contributor	illustrator		Update Delete...
6	contributor	other		Update Delete...
67	contributor	translator	Last, First M.	Update Delete...
1	contributor		A person, organization, or service responsible for the content of the resource. Catch-all for unspecified contributors.	Update Delete...
7	coverage	spatial	Spatial characteristics of content.	Update Delete...
8	coverage	temporal	Temporal characteristics of content.	Update Delete...

Digital preservation²

◆ Known/supported

- Migration for texts, images, audio, etc.
- Emulation for software, multimedia possible
- E.g. mpg, wav, gif, tiff

◆ Known/unsupported

- bit preservation at minimum
- no guarantees for support
- E.g. Word, Excel

◆ Unknown/unsupported = format not known

- Bit preservation at minimum

DSpace at UH Manoa

- ◆ Institutional scope : starting with UH Manoa
- ◆ ETA: June 2007
- ◆ Current communities of interest:
 - Electronic journals
 - Department archives
 - Brittle books project
 - E-theses and dissertations
 - Departmental publications
- ◆ Demo

Sources

- [1] Tansley, Robert. Digital Media Systems Lab, Hewlett Packard. Presented at 2005 DSpace User Group Meeting.
www.lib.cam.ac.uk/DSpace/usergroup2005/Tansley-keynote.ppt
- [2] MacKenzie, Smith. MIT. Presented at Forum on Preservation of e-Learning Materials and Cost Models for Digital Preservation, 2002.
<http://www.dpconline.org/graphics/events/presentations/pdf/DSpaceatDPCOct2002.pdf>
- [3] DSpace home page. <http://DSpace.org/>
- [4] DSpace beta 1 1.4.1 System Documentation :
http://wiki.DSpace.org/index.php/Main_Page
- [5] Lynch, C. A., Lippincott, J. K. Institutional Repository Deployment in the United States as of Early 2005. D-Lib Magazine, Vol 11 (2005).
<http://www.dlib.org/dlib/september05/lynch/09lynch.html>
- [6] Lynch, Clifford. "Institutional Repositories: Essential Infrastructure for Scholarship in the Digital Age." ARL Bimonthly Report, No. 226, February 2003. <<http://www.arl.org/newsltr/226/ir.html>>